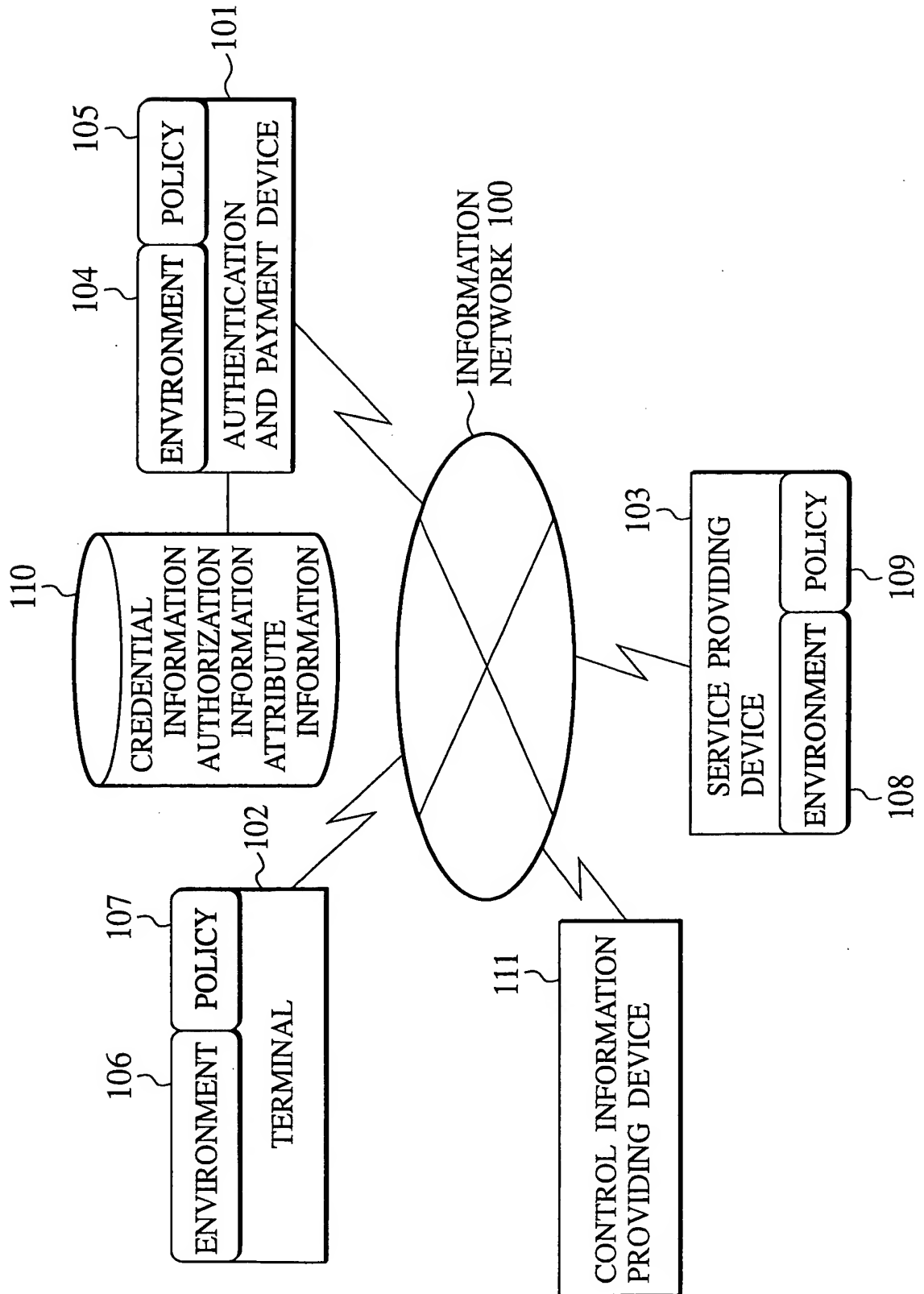


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FIG.1



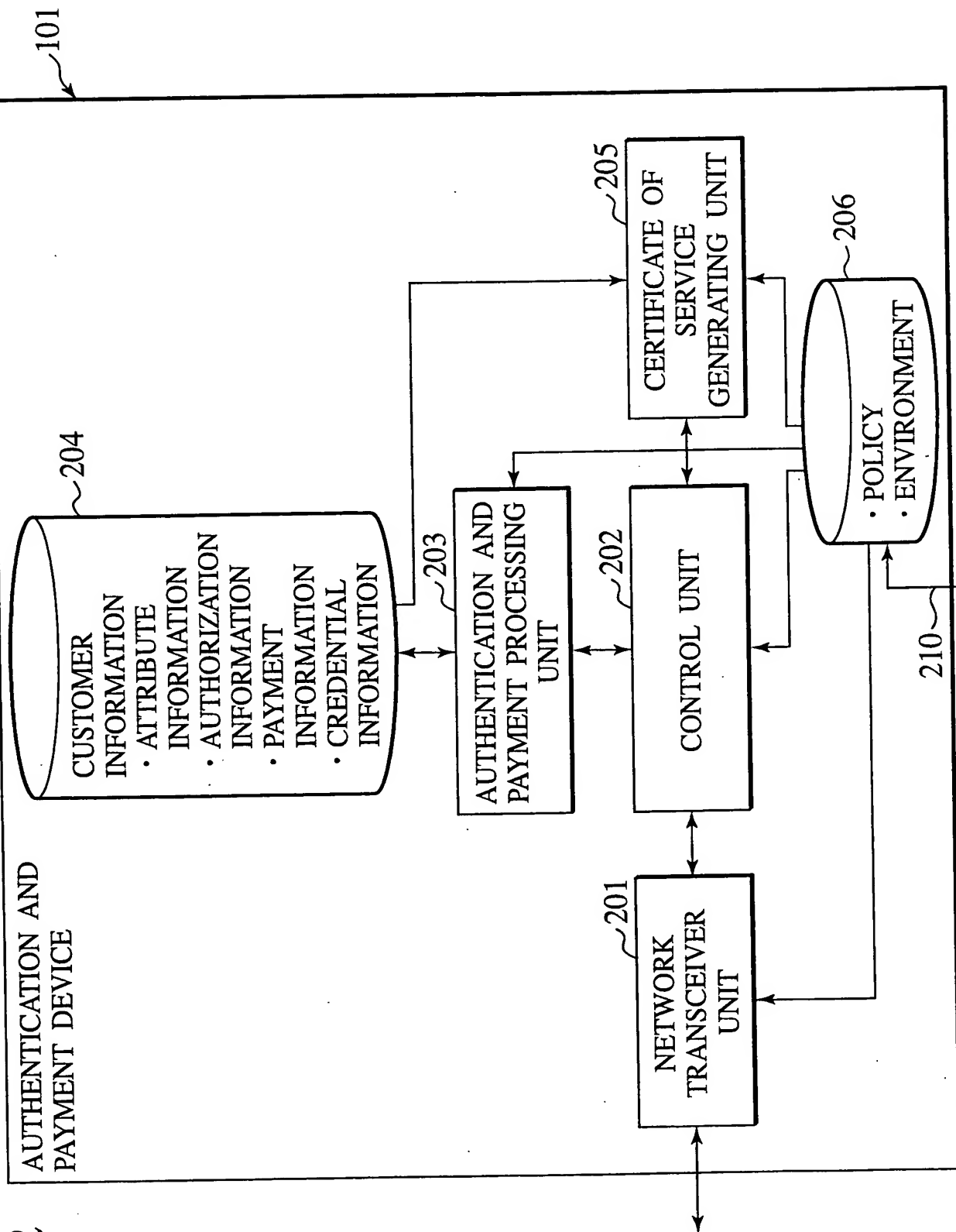
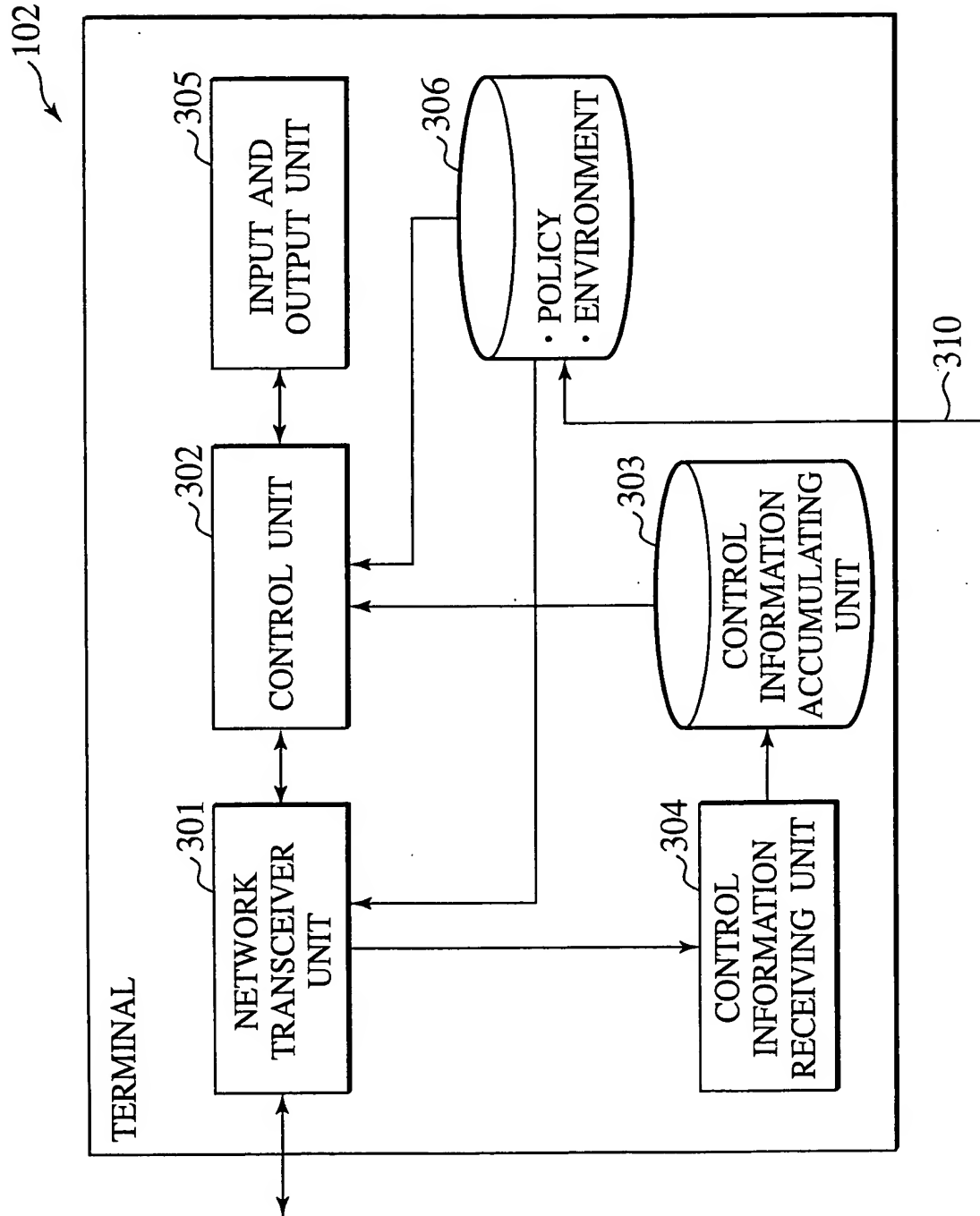


FIG.3



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FIG.4

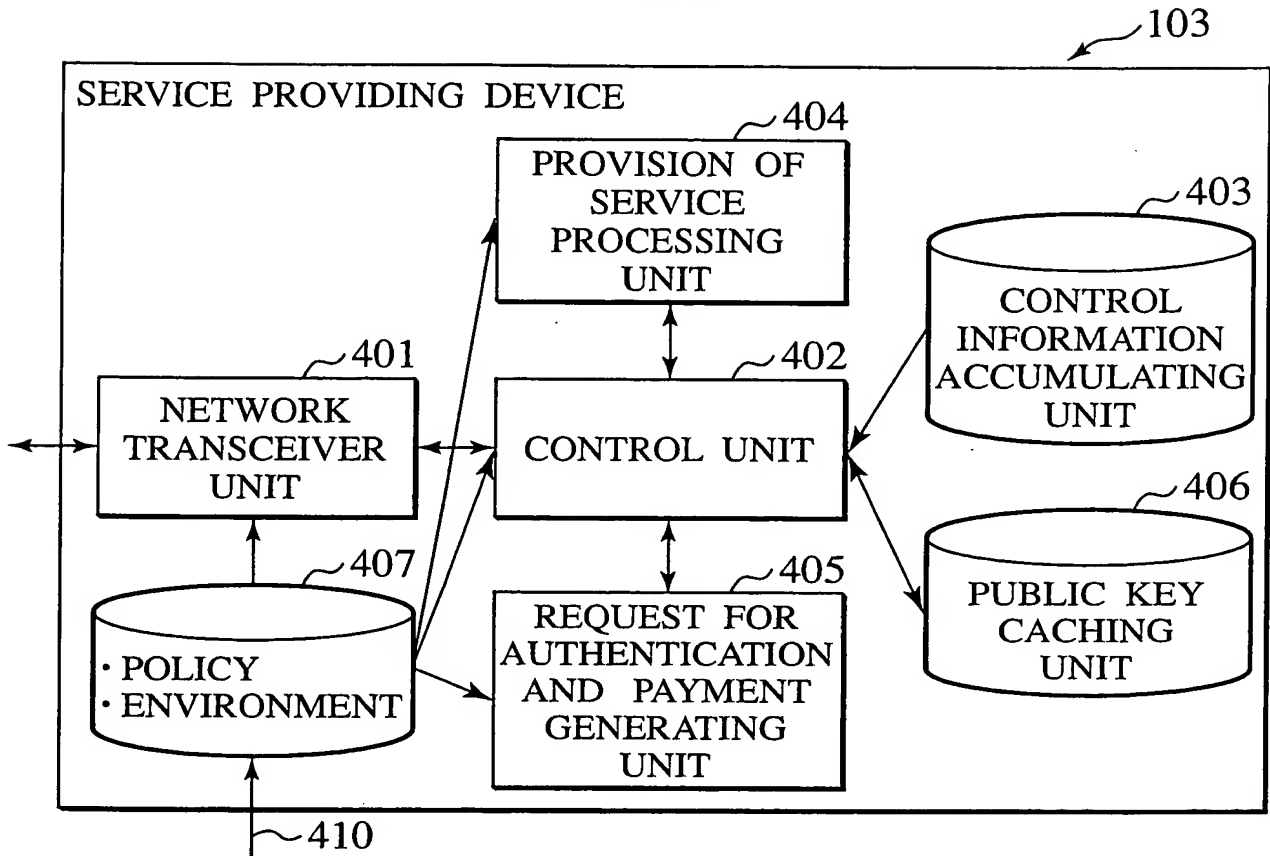


FIG.5

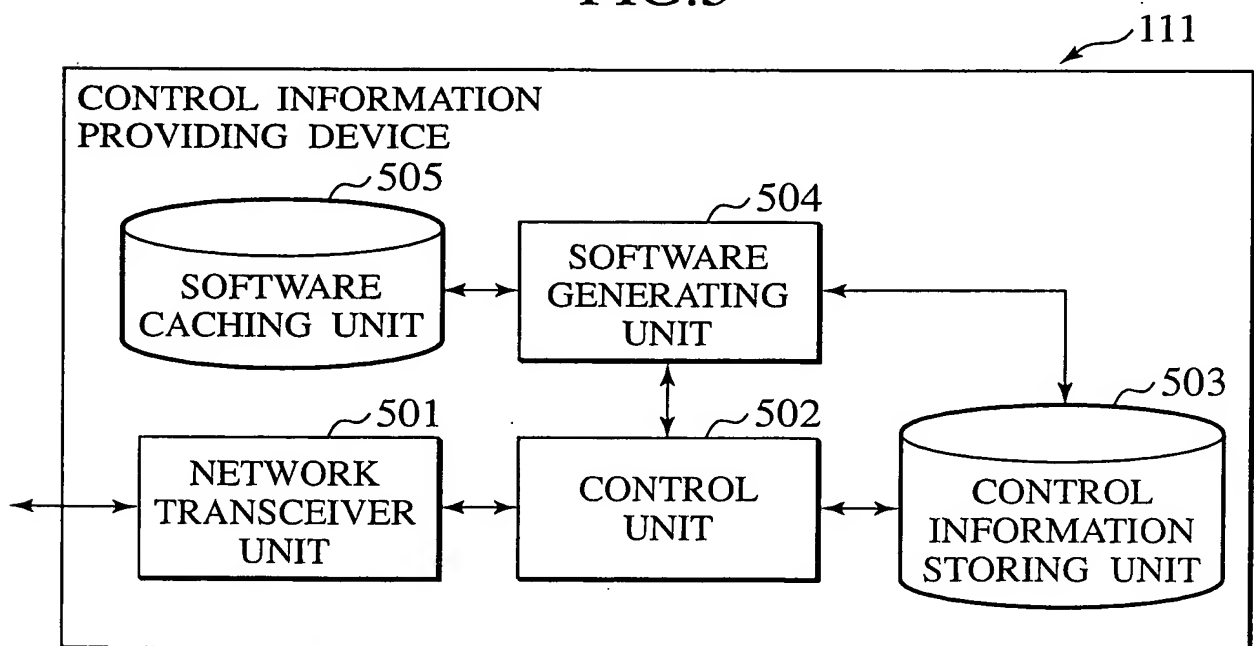


FIG.6

```
<flowModel name="ServiceProvider" ...>
<flowSource name="getOrder" .../>
<activity name="flowSelection" .../>
<activity name="SendETicket" .../>
<activity name="requestCharge" .../>
<activity name="receiveConfirmation" .../>
<activity name="SendReceipt" .../>
<controllink
Source="getOrder" target="SendETicket"
transitionCondition=".../my:amount >= .../price"/>
<controllink
Source="SendETicket" target="requestCharge"
transitionCondition=".../my:amount >= .../price"/>
<controllink
Source="requestCharge" target="receiveConfirmation"/>
<controllink
Source="receiveConfirmation"
target ="SendReceipt"
transitionCondition=".../my:amount >= .../price"/>
<controllink
Source="getOrder" target="requestCharge"
transitionCondition=".../my:amount < .../price"/>
<controllink
Source="requestCharge" target="receiveConfirmation"/>
<controllink
Source="receiveConfirmation" target="SendETicket"
transitionCondition=".../my:amount < .../price"/>
<controllink
Source="SendETicket"
target ="SendReceipt"
transitionCondition=".../my:amount < .../price"/>
</flowModel>
```

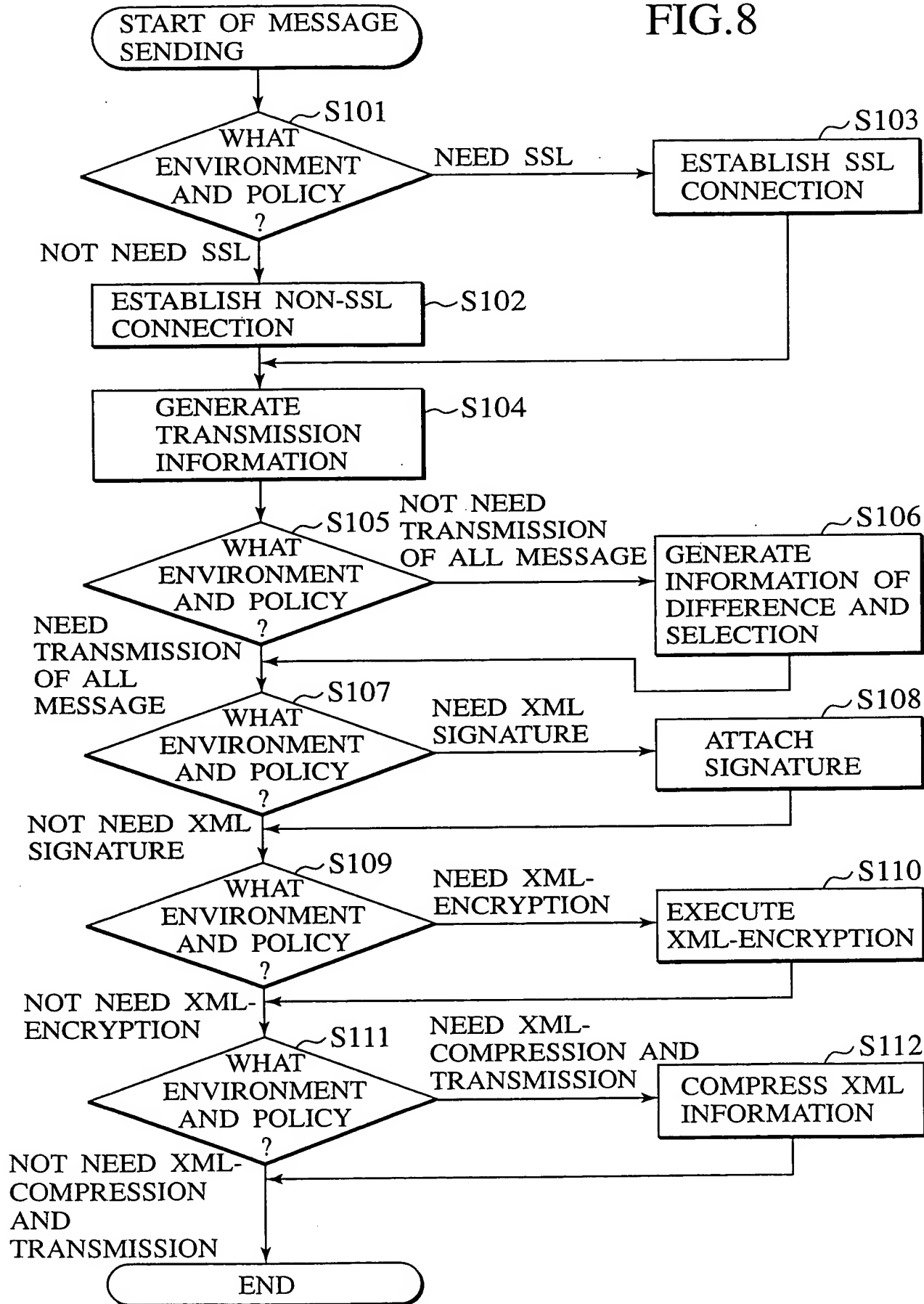
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FIG.7

```
<definitionS xmlns:dS="http://www.w3.org/2000/09/xmldSig#" ...>
<typeS .../>
<meSSage name="getOrderInput">
<part name="getOrderRequeSt"
type="tnS:getOrderType"
dS:algorithm=
"http://www.w3.org/2000/09/xmldSig#rSa-Sha1"/>
  <part name="ServiceASSertion" type="Saml:ASSertion"
    dS:algorithm=
"http://www.w3.org/2000/09/xmldSig#rSa-Sha1"/>
</meSSage>
<portType .../>
<binding .../>
<Service name="getService">
<port name="placeOrder"
binding="tnS:placeOrderPortBinding">
<ext:Switch>
<ext:caSe>
<ext:condition>
<ext:acceSS>IrDA</ext:acceSS>
</ext:condition>
<ext:action>
<Soap:adreSS
location="http://example1.com/provider"/>
</ext:action>
</ext:caSe>
<ext:default>
<ext:action>
<Soap:adreSS
location="httpS://example1.com/provider"/>
</ext:action>
</ext:default>
</ext:Switch>
</port>
</Service>
</definitionS>
```

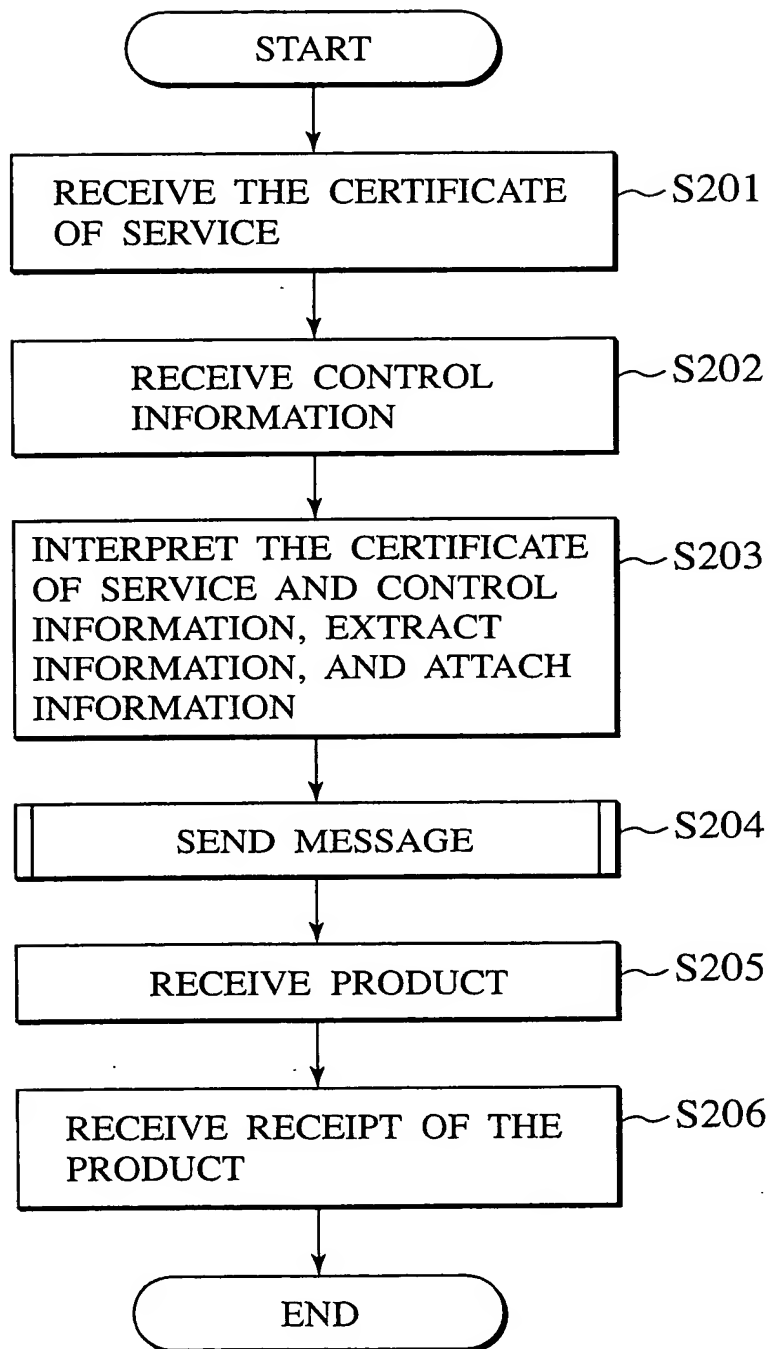
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FIG.8



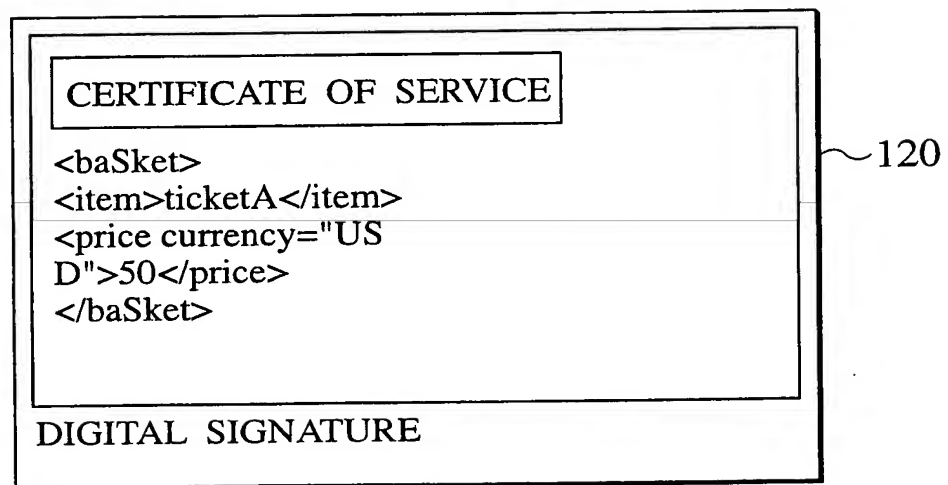
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FIG.9



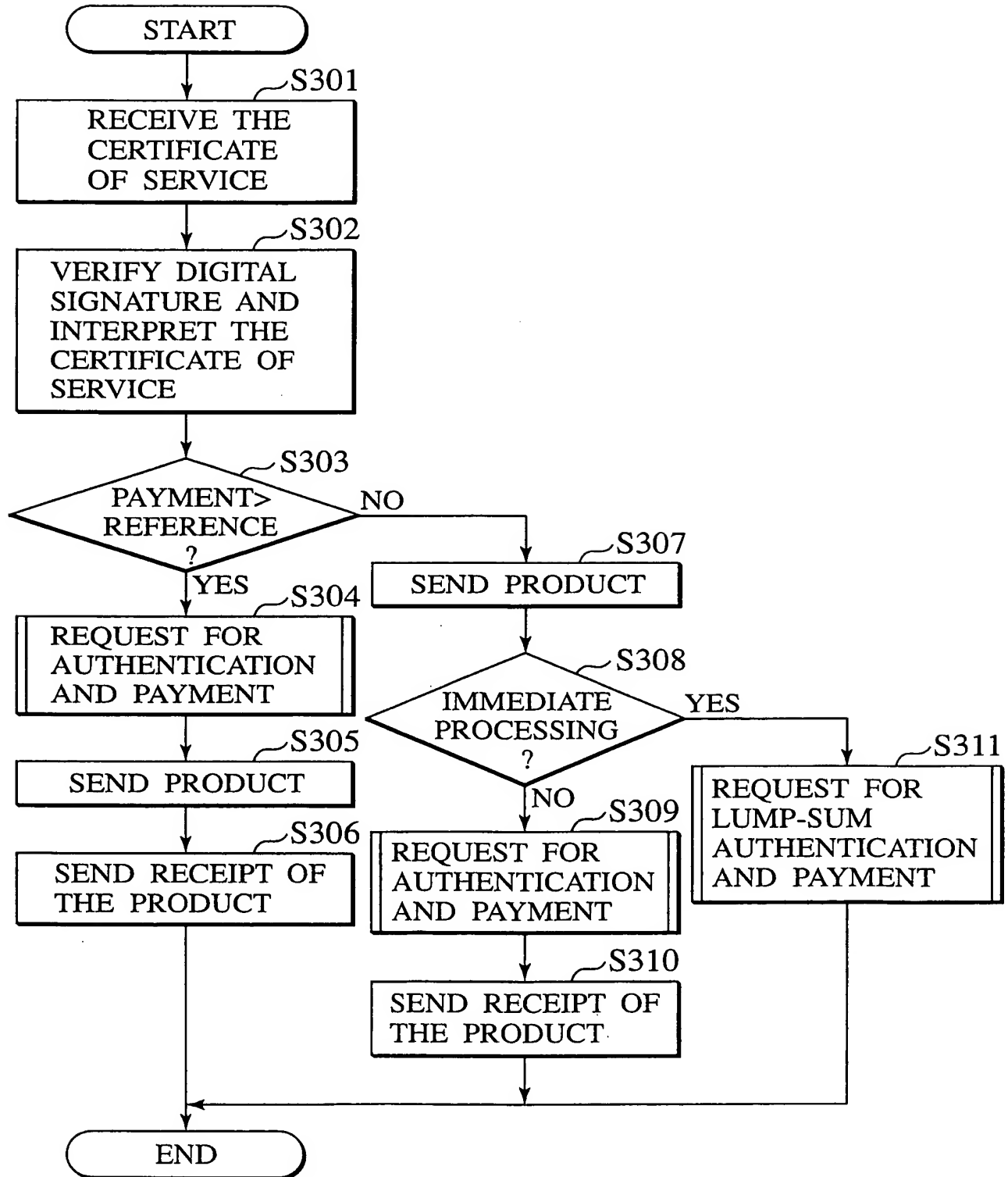
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FIG.10



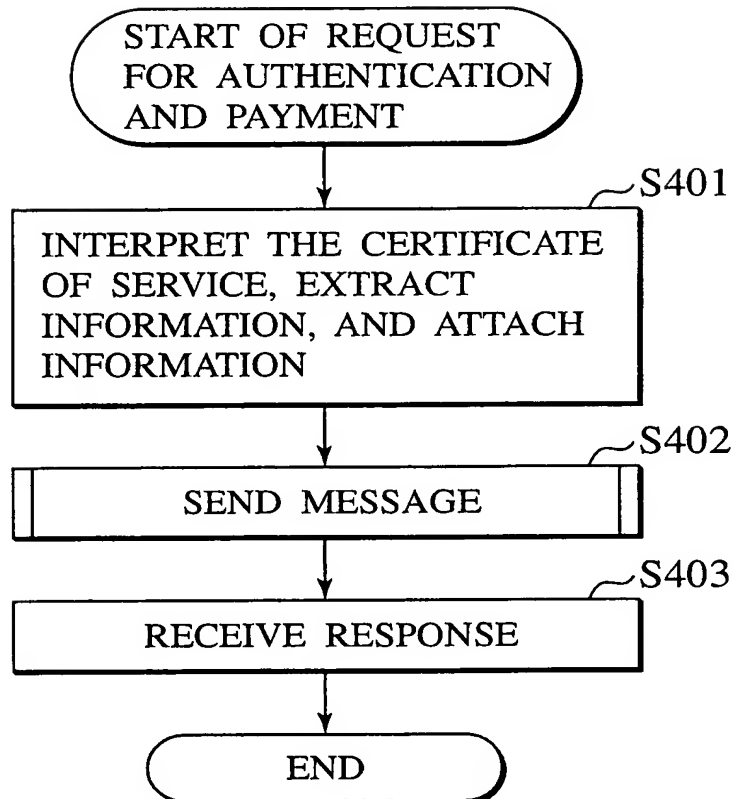
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FIG.11



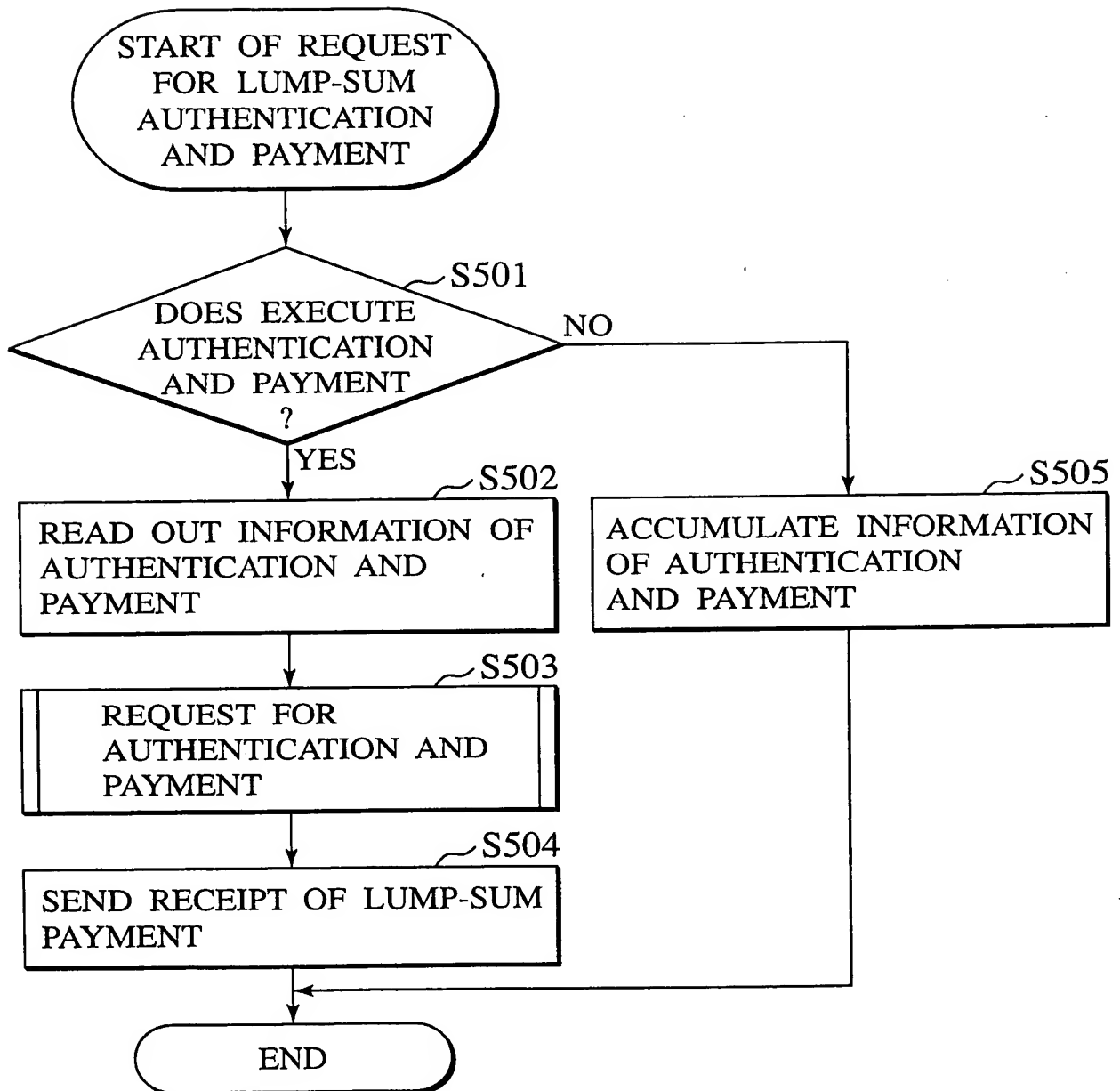
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FIG.12



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FIG.13



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FIG.14

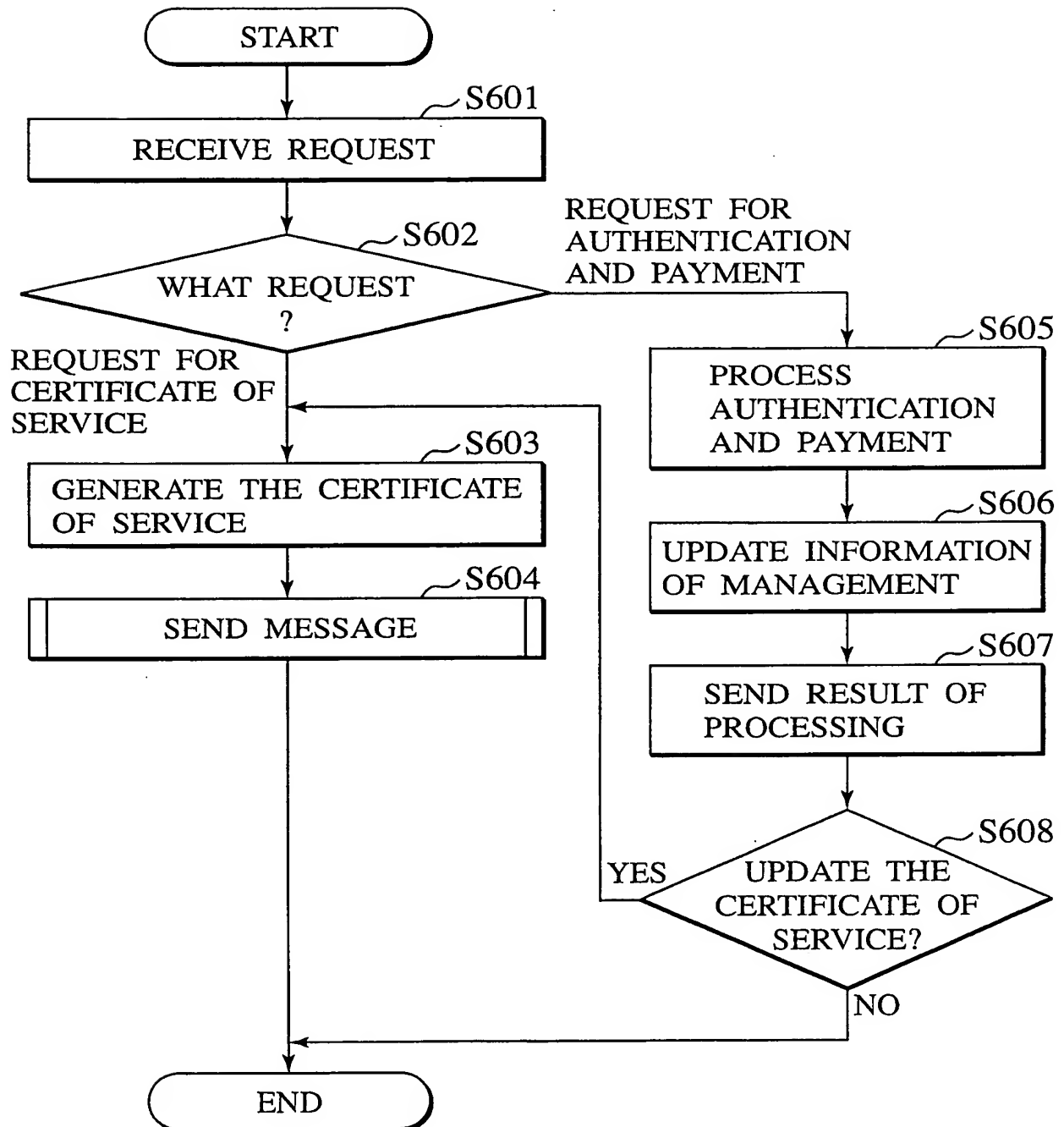
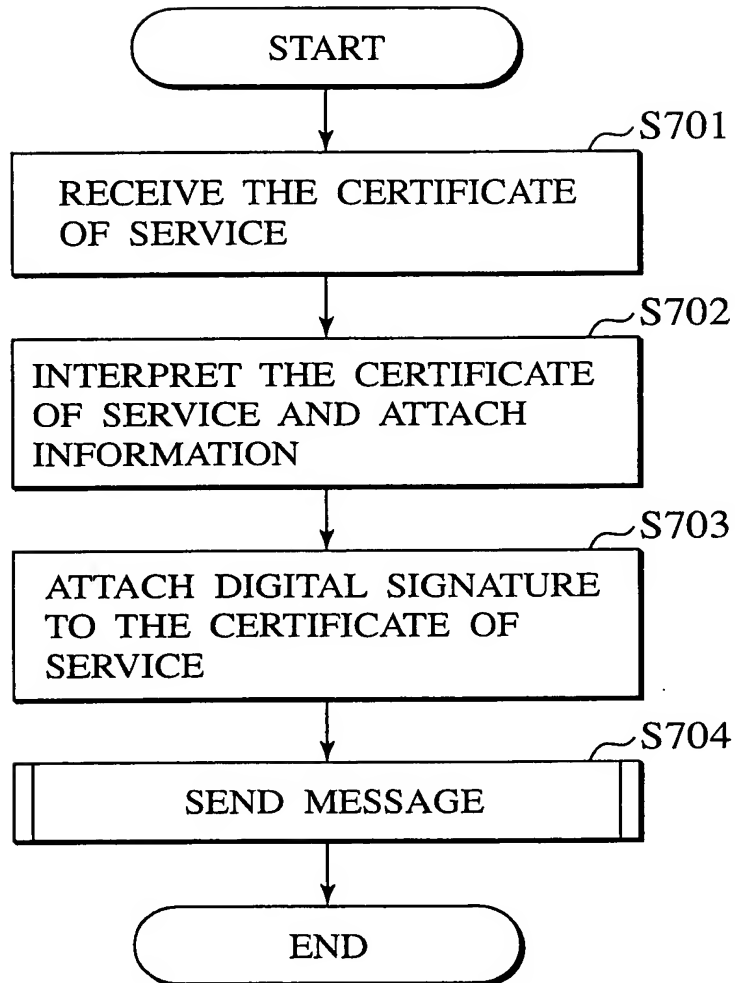


FIG.15

```
<Saml:ASSertion
MajorVerSion="1" MiNOVerSion="0"
ASSertionID="192.168.0.1.12345678"
ISSuer="NTT DoCoMo, Inc."
ISSueInStant="2002-08-01T10:09:35Z">
<Saml:ConditionS
NOtBefore="2002-08-01T10:00:00Z"
NOtAfter="2002-08-03T10:00Z"/>
<Saml:AttributeStatement>
<Saml:Subject>
<Saml:NameIdentifier
SecurityDomain="docomo.ne.jp"
Name="uSer1"/>
</Saml:Subject>
<Saml:Attribute
AttributeName="LimitWithoutAuthorization"
AttributeNameSpace="http://nttdocomo.ne.jp">
<Saml:AttributeValue>
<my:amount currency="USD">
500
</my:amount>
<Reference URI="http://nttdocomo.co.jp/repoSitory/uSer1/Saml.xml"/>
<my:SsecretValue>
<EncryptedData xmlns="http://www.w3.org/2001/04/xmlenc#"
Type="http://www.w3.org/2001/04/xmlenc#Content">
<CipherData>
<CipherValue>A23B45C56</CipherValue>
</CipherData>
</EncryptedData>
</my:SecretValue>
</Saml:AttributeValue>
</Saml:Attribute>
</Saml:AttributeStatement>
</Saml:ASSertion>
```

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FIG.16



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FIG.17

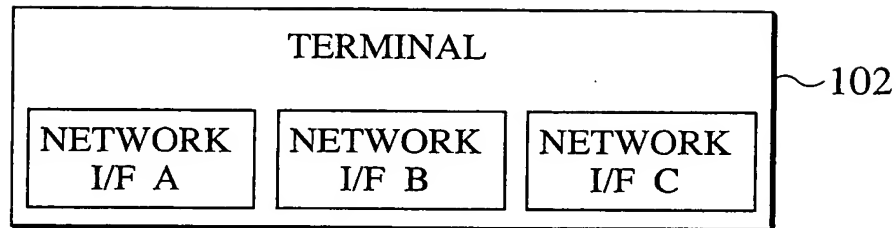


FIG.18

```
<networkDescription>  
<access>mobile phone</access>  
<bandwidth>1</bandwidth>  
<securityStrength>80</securityStrength>  
<cost>80</cost>  
</networkDescription>
```

```
<networkDescription>  
<access>wireless LAN</access>  
<bandwidth>100</bandwidth>  
<securityStrength>10</securityStrength>  
<cost>20<cost>  
</networkDescription>
```

```
<networkDescription>  
<access>IrDA</access>  
<bandwidth>10</bandwidth>  
<securityStrength>70</securityStrength>  
<cost>1</cost>  
</networkDescription>
```


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FIG.19

```
<userprofile>  
<preferece>security=0.6,bandwidth=0.2,cost=0.2</preference>  
</userprofile>
```

FIG.20

```
<definitions  
  xmlns:ds="http://www.w3.org/2000/09/xmldsig#"...>  
  <types.../>  
  <message name="getOrderInput">  
    <part name="getOrderRequest"  
      type="tns:getOrderType"  
      ds:algorithm=  
        "http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>  
      <part name="seviceAssertion"  
        type="saml:Assertion"  
        ds:algorithm=  
          "http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>  
      </part>  
    </message>  
    <portType.../>  
    <binding.../>  
    <service name="getService">  
      <port name="placeOrder"  
        binding="tns:placeOrderPortBinding">  
        <soap:address  
          location="https://example1.com/provider"/>  
        </port>  
      </service>  
    </definitions>
```

FIG.21

```
<RDF...>
<rdf:Description ID="Profile">
  <prf:component>
    <rdf:Description ID="NetworkCharacteristics">
      <prf:SecuritySupport>SSL
      3.0</prf:SecuritySupport>
      <prf:SupportedBearers>
        <rdf:Bag>
          <rdf:li>mobile Phone</rdf:li>
          <rdf:li>wireless LAN</rdf:li>
        </rdf:Bag>
      </prf:SupportedBearers>
    </rdf:Description>
  </prf:component>
</rdf:Description>
</RDF>
```